



# Alfa Laval M10 W

## Gasketed plate-and-frame heat exchanger for demanding applications

Alfa Laval Industrial semi-welded line is used when gaskets are not suitable for one of the process media. The semi-welded line can also withstand a higher design pressure compared to fully gasketed plate-and-frame heat exchangers.

Suitable for a wide range applications, this model is available with a large selection of plate and gasket types.

### Applications

- Chemicals
- Energy and Utilities
- Food and Beverages
- HVAC and Refrigeration
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- Steel
- Water and Waste treatment

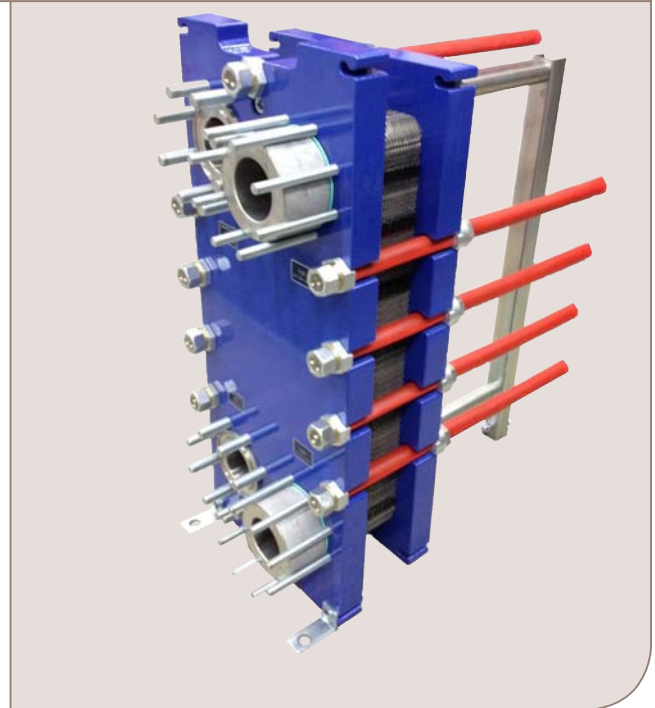
### Benefits

- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

### Features

Every detail is carefully designed to ensure optimal performance, maximum uptime and easy maintenance. Selection of available features:

- Corner guided alignment system
- Chocolate pattern distribution area
- Clip-on gasket
- Leak chamber
- RefTight™ sealing system
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover
- Optimized Alfa Laval drain connection



### Extending performance

#### with Alfa Laval 360° Service Portfolio

Our extensive services ensure top performance from your Alfa Laval equipment throughout its life cycle. The availability of parts and our team's commitment and expertise bring you peace of mind.

#### Start-up

- Installation
- Installation Supervision
- Commissioning

#### Maintenance

- Cleaning Services
- Reconditioning
- Repair
- Service Tools
- Spare Parts

#### Support

- Exclusive Stock
- Technical Documentation
- Telephone Support
- Training
- Troubleshooting

#### Improvements

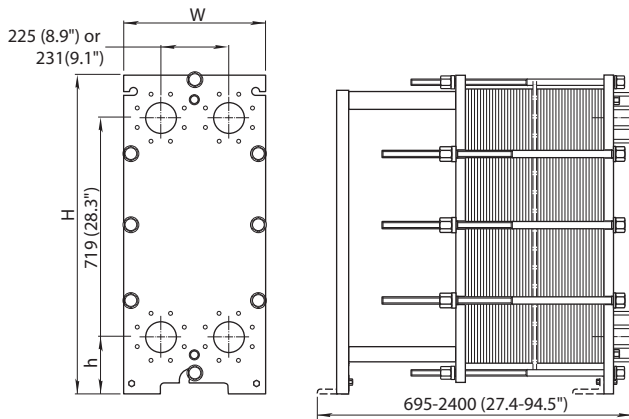
- Equipment Upgrades
- Redesign
- Replacement and Retrofit

#### Monitoring

- Condition Audit
- Performance Audit

## Dimensional drawing

Measurements mm (inches)



Type	H	W	h
M10-FG	1084 (42.7")	470 (18.5")	215 (8.5")
M10-FD	981 (38.6")	470 (18.5")	131 (5.2")
M10-FD, ASME	1084 (42.7")	470 (18.5")	215 (8.5")
M10-REF	1110 (43.7")	470 (18.5")	163 (6.4")
M10-FT	1084 (42.7")	470 (18.5")	215 (8.5")
M10_FX	1133 (44.6")	470 (18.5")	215 (8.5")

The number of tightening bolts may vary depending on pressure rating.

## Technical data

### Plates

Name	Type	Free channel, mm (inches)
M10-BW	Semi-welded	2.4 (0.094)

### Materials

Heat transfer plates	304/304L, 316/316L, 904L, 254 C-276, C-2000, D-205 G-30 Alloy 33, Ni, Ti, TiPd
Field gaskets	NBR, EPDM, FKM, CR
Ring gaskets	NBR, EPDM, FKM, FEPM, PTFE, CR
Flange connections	Metal lined: stainless steel, Alloy 254, Alloy C-276, titanium
Frame and pressure plate	Carbon steel, epoxy painted

Other materials may be available on request.

All option combinations may not be configurable.

## Operational data

Frame, PV-code	Max. design pressure (barg/psig)	Max. design temperature (°C/°F)
FG, ASME	10.3/150	250/482
FG, PED	16.0/232	180/356
FD, pvcALS	25.0/363	180/356
FD, ASME	20.7/300	250/482
FD, PED	25.0/362	180/356
FDR, PED	25.0/362	160/320
FT, PED	40.0/580	180/356
FT, ASME	41.4/600	250/482
FX, PED	55.0/798	150/302
REF, PED	25.0/362	150/302

Extended pressure and temperature rating may be available on request.

## Flange connections

FG, pvcALS	EN 1092-1 DN100 PN16 ASME B16.5 Class 150 NPS 4 JIS B2220 16K 100A
FG, ASME	ASME B16.5 Class150 NPS 4
FG, PED	EN 1092-1 DN100 PN16 ASME B16.5 Class 150 NPS 2
FD, pvcALS	EN 1092-1 DN100 PN25 ASME B16.5 Class 300 NPS 4 JIS B2220 20K 200A
FD, ASME	ASME B16.5 Class 300 NPS 4
FD, PED	EN 1092-1 DN100 PN25 ASME B16.5 Class 300 NPS 4
FT, PED	EN 1092-1 DN100 PN40 ASME B16.5 Class 300 NPS 4
FT, ASME	RLF
FX, PED	EN 1092-1 DN100 PN16 EN 1092-1 DN100 PN25 EN 1092-1 DN100 PN63
REF, PED	EN 1092-1 DN100 PN25

Standard EN1092-1 corresponds to GOST 12815-80 and GB/T 9115.

RLF (Rectangular Loose Flange) in pressure plate: FG, FD, FT PED, FX PED

## How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.